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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,141	07/05/2006	Carla Caccia	2503-1218	8827
466 YOUNG & TH	7590 07/11/200 OMPSON	EXAMINER		
209 Madison Street			CUTLIFF, YATE KAI RENE	
	Suite 500 ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1621	
			MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/582,141	CACCIA ET AL.
Office Action Summary	Examiner	Art Unit
	YATE' K. CUTLIFF	1621
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron tte, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 14 and 2a) This action is FINAL . 2b) This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 11-14 is/are pending in the applicating 4a) Of the above claim(s) is/are withdress. 5) Claim(s) is/are allowed. 6) Claim(s) 11-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examing 10) The drawing(s) filed on is/are: a) according and according to the application and according to the accordin	awn from consideration. or election requirement. ner.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:	oate

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 11 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for salts, does not reasonably provide enablement for 'prodrugs". The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

The nature of the invention in the instant case has claims which embrace hydroxylamine derivatives and salts thereof. The scope of "prodrugs" is not adequately enabled. Applicants provide no guidance as how the compounds are made more active *in vivo*. The choice of a "prodrug" will vary from drug to drug. Therefore, more than minimal routine experimentation would be required to determine which prodrugs will be suitable for the instant invention.

The instant compounds of formula (I) wherein the prodrugs are not described in the disclosure in such a way the one of ordinary skill in the art would know how to prepare the various compounds suggested by said claims. In view of the lack of direction provided in the specification regarding starting materials, the lack of working examples, and the general unpredictability of chemical reactions, it would take an undue amount of

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experimentation for one skilled in the art to make the claimed compounds and therefore practice the invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 11 -14 are rejected under 35 U.S.C. 102(b) as being anticipated by Korting et al. (Arzneimittel-Forschung, 1954).
- 4. Applicant claims compounds having the following formula:

5. Korting et. al. discloses the adrenalin derivative phenol, m-[2-(ethylhydroxyamino)ethyl] as set out below.

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Applicant is directed to page 64, column 2 compound 5. The claimed compound is anticipated when n=0, R2 = OH, R1, R3, R4 and R6 = H, R5 = C_2H_5 (ethyl).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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9. Claims 11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Korting et al. (Arzneimittel-Forschung, 1954) in view of Davidson (Florida State University, 1995-2000).

- 10. The rejected claims disclose a pharmaceutical composition of one or more of the compounds of the formula of claim 1 in a mixture with excipents and/or carriers.
 Further, claiming a pharmaceutical composition for treatment of central or peripheral system disorders.
- 11. Korting et al. discloses the claimed invention. Applicant is directed to the discussion in the 102(b) rejection. Korting et al. discloses that the compound has a pharmaceutical use, specifically high pilomotor activity. (see abstract).

Korting et al. fails to disclose that the claimed invention is used for treatment of disorders of the central and peripheral nervous system.

However, Korting et al. discloses an adrenalin (epinephrine) derivative.

Davidson states that epinephrine can stimulate of the central nervous system.

(abstract).

It would have been obvious to one of ordinary skill in the art to include the compound of Korting et al. in pharmaceutical compositions and those that affect the central nervous system. As disclosed in Korting et al. the motivation for the combination is because of the high stimulation activity of the Korting et al. derivative.

Therefore, the invention as a whole was *prima facie* obvious because a person of ordinary skill in the art at the time the invention was made, would have been motivated

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to combine the prior art to achieve the claimed invention and that there would have been a reasonable expectation of success.

Response to Amendment

12. The amendment of the claims filed March 14, 2008 are acknowledged and entered.

Response to Arguments

13. Applicant's arguments with respect to claims 11-14 have been considered but are moot in view of the new ground(s) of rejections as set out above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YATE' K. CUTLIFF whose telephone number is (571)272-9067. The examiner can normally be reached on M-TH 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on (571) 272 - 0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yaté K. Cutliff Patent Examiner Group Art Unit 1621 Technology Center 1600

> /ROSALYND KEYS/ Primary Examiner, Art Unit 1621